

Main Points



- High Confidence UNSEASONABLY COLD temperatures will overspread all of north and central GA by Friday morning (12/23)
 - Temperatures expected to be 20-35F degrees below normal
 - Coldest air in 5-8 years (Jan 2015 / 2018)
 - Strong wind gusts 25-35 mph will result in critically cold wind chill values below zero expected for 24+ hours
 - A <u>Wind Chill WATCH</u> will likely be converted to an Advisory or Warning today—impacts beginning after midnight, Thursday night through Saturday
 - Prolonged period (72 hours) of sub-freezing temperatures expected through Monday
- Quick shot of wintry precipitation mainly northwest and far north GA late Thursday night into Friday morning
 - Rain is expected to quickly change to snow before ending
 - Any accumulations expected to be less than 1 inch at this time
 - Watch for patchy black ice/flash freeze as colder air moves in



A little historical perspective



- Since 2000, in Atlanta, the temperature has been at or below 12 degrees only 8 times the last time being January 2015.
- In Athens, the temperature has been <u>at or below 12 degrees only 6 times</u> the last time being January 2018.
- In Macon, the temperature has been <u>at or below 15 degrees only 7 times</u> the last time being January 2015.
- In Columbus, the temperature has been <u>at or below 15 degrees only 4 times</u> the last time being January 2015.



Wind Chill Watch/Warnings Early Friday -> Saturday



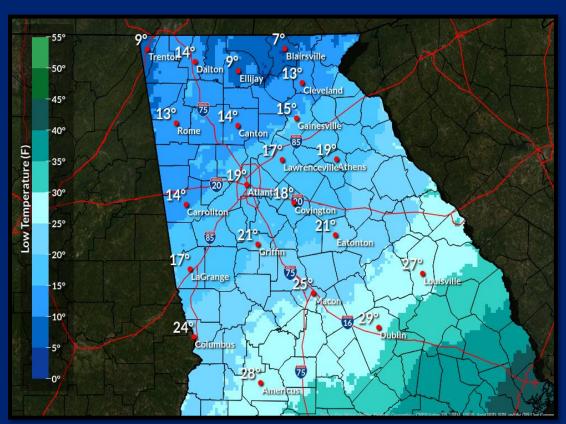


- Temperatures sharply falling after midnight through mid morning Friday
- Wind Chills lowest during the day Friday/Friday Night
- Advisory for Wind Chills:
 +5 to -9°F
- Warning for Wind Chills:
 -9°F and below

Temperatures



Lows by daybreak Friday morning (Thursday night)

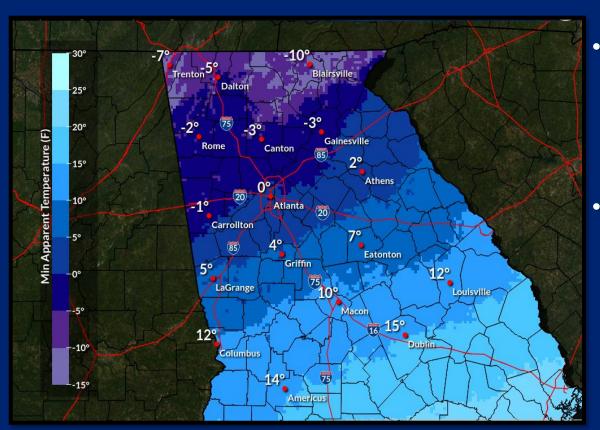


- Temperatures sharply falling after midnight through mid morning Friday
- Any precipitation that is falling (or has fallen) could result in rapidly developing icy conditions on roads
- South of a Columbus to Macon line, temperatures will continue to fall through the day Friday
- Widespread sub-freezing temps by 5PM Friday

Minimum Wind Chills



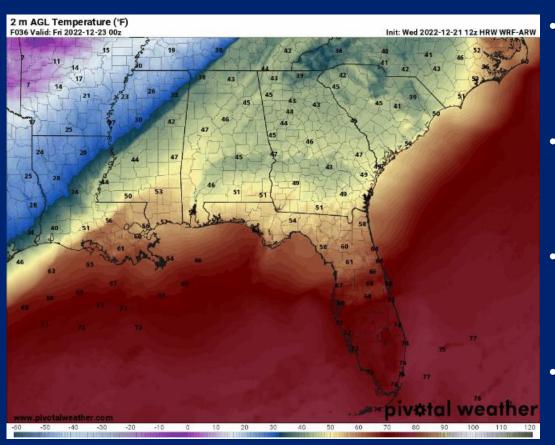
Late Thurs Night / Friday (12/23)



- Graphic shows Minimum
 Wind Chill values generated
 from a combination of max
 wind gusts and air temps
- These values (+5 to -9°F)
 support a WIND CHILL
 ADVISORY/WARNING (-9°F
 OR BELOW) likely issued
 this afternoon

Drastic Temperature Drop

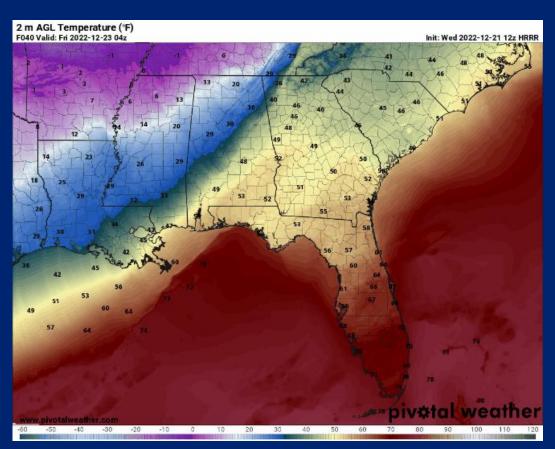
Flash Freeze Potential (Model #1 – **ARW**)



- Temperatures sharply falling after midnight through mid morning Friday
- Models indicating as much as a 30+ degree drop over ~ 5/6 hour period
- Any residual moisture would freeze quickly ...**much of it will dry out with wind and dry air**
- Any falling precip would likely stick (very little expected)

Drastic Temperature Drop

Flash Freeze Potential – Model #2 (HRRR)



- Temperatures sharply falling after midnight through mid morning Friday
- Models indicating as much as a 30+ degree drop over ~ 5/6 hour period
- Any residual moisture would freeze quickly ...**much of it will dry out with wind and dry air**
- Any falling precip would likely stick (very little expected)

Max Temperatures



Highs Friday PM

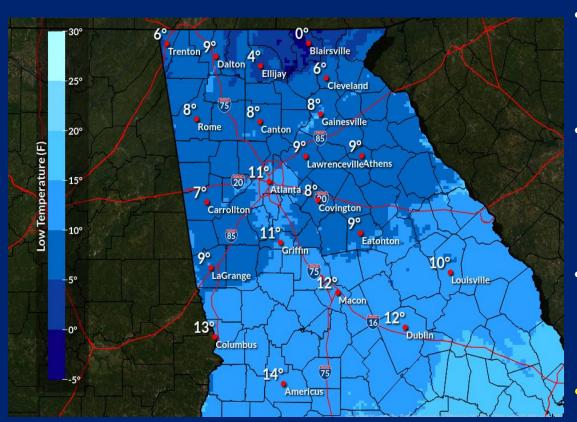


- Many areas will see highs for the day around Midnight (Thursday Night)
- Temps falling through the day and remaining steady during the peak sunlight hours (afternoon)
- Widespread sub-freezing temps by 5PM Friday

Temperatures



Lows by daybreak Saturday morning (Friday night)

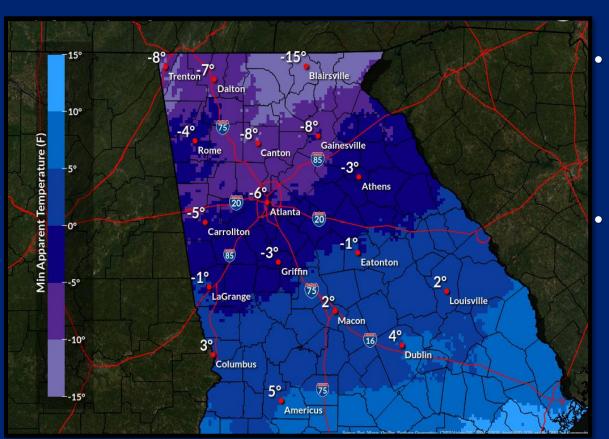


- Temperatures sharply falling after midnight through mid morning Friday
- Any precipitation that is falling (or has fallen) could result in rapidly developing icy conditions on roads
- South of a Columbus to Macon line, temperatures will continue to fall through the day Friday
- **Temps could be colder**

Minimum Wind Chills



Late Friday Night / Saturday (12/24)



- Graphic shows Minimum
 Wind Chill values generated
 from a combination of max
 wind gusts and air temps
- These values (+5 to -9°F)
 support a WIND CHILL
 ADVISORY/WARNING (-9°F
 OR BELOW) likely issued
 this afternoon

Temperature Range

Based on Model spreads – Saturday 12/24 AM



Low Temperature Range Forecast

80% of the time the low temperature will fall between the given range. A wider range represents less certainty in the forecast, which can be caused by varying cloud cover, a passing front or other related weather conditions.

Location

Range Forecast

Best **Forecast**



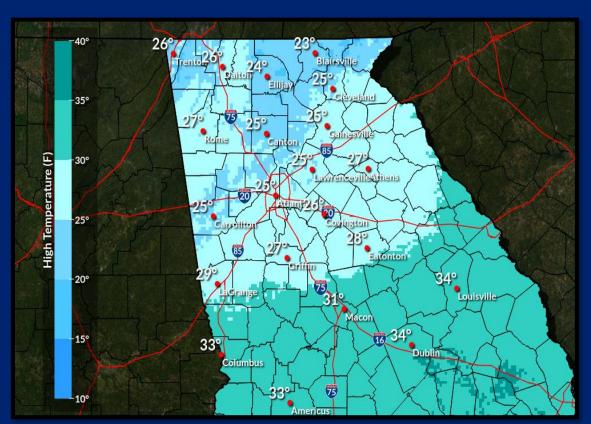
Issued: Wed, Dec 21, 2022, 9 AM



Max Temperatures

EATHER SET

Highs Saturday PM

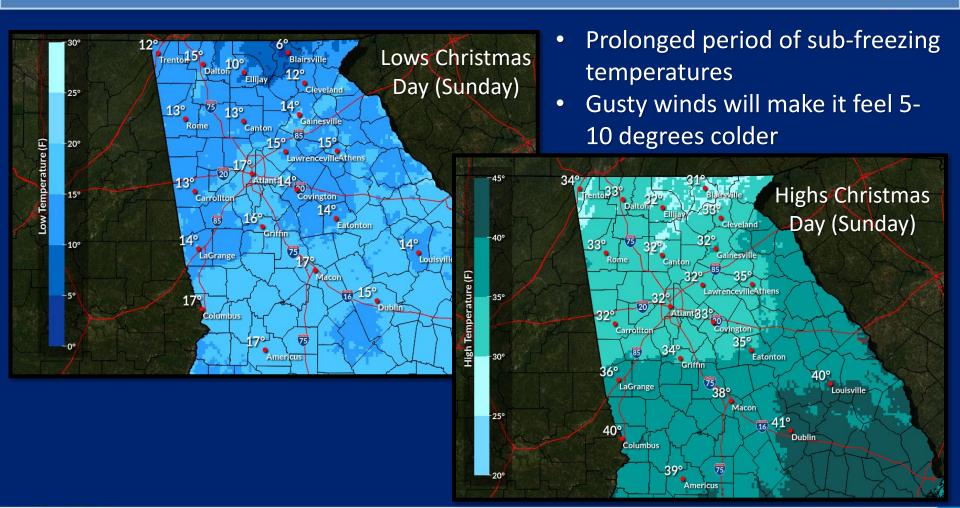


- **RECORD low Max temps in the forecast for Saturday
- Winds will begin to diminish through the day but wind chills will still be in the single digits to low teens

Cold continues into Christmas Day

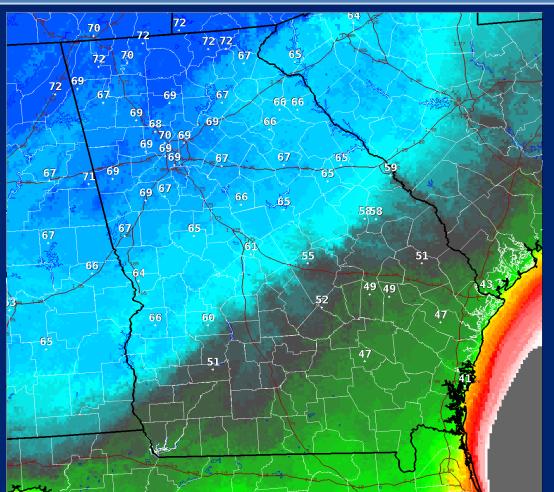
WEATHER SERVICE

Lows Saturday night/Sunday morning (12/24-25)



Total Hours Below Freezing

7 AM Friday – 7 AM Monday (Max 72 hours)



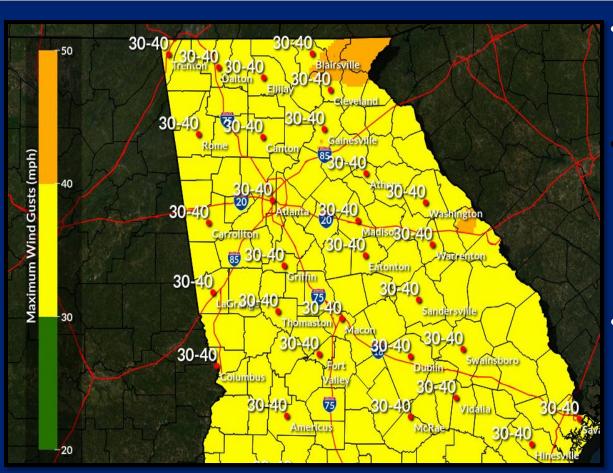
- Graphic shows the number of hours in our forecast below
 32 degrees from Friday to Monday
- Prolonged period of subfreezing temperatures
- Could increase in the I-20 corridor as newer guidance coming in colder for Sunday highs



Strong Winds



Behind the Cold Front... late Thursday night through Friday afternoon



- Expected peak wind (gusts)
 behind the cold front, late
 Thursday night and Friday
- NOTE: gusty winds will continue into Friday night and Saturday morning but likely come decrease with time through early Saturday
- If this holds... a WIND
 ADVISORY (area-wide) and
 possible HIGH WIND
 WARNING (across NE GA)

Rain -> Snow

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Late Thursday night - Friday morning



- Rain will quickly change to snow across west-central and north GA late Thursday night into Friday morning
- Areas in BLUE have best chance to see minor snow accumulations generally < ½ inch
- All areas could see patchy BLACK ICE due to temps dropping rapidly into the teens and 20s by Fri AM

Official Snow Forecast





- Light Snow accumulations across northern GA
 - Given the very cold temps, could be some travel issues even though amounts are light
- Light snow flurries or a snow shower is possible as the front moves in before daybreak Friday

Cold Weather Impacts





- Exposed water lines/pipes at risk for freezing/bursting
 - Signs -> Low water pressure
- Outside pets should be cared for
- Risk of hypothermia for anyone not dressed to protect against the cold

Summary



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